Panasonic

business.panasonic.eu

20612V1-250713-EN

Simulated pictures on screen. Specifications are subject to change without notice. As of June 1, 2013. CT13-E02PF
Panasonic System Communications Company Europe, a Division of Panasonic Marketing Europe GmbH, Hagenauer Straße 43, 65203 Wiesbaden, Germany.

Panasonic

PROFESSIONAL DISPLAYS

LINE-UP CATALOGUE MID 2013

Professional **Plasma Displays**

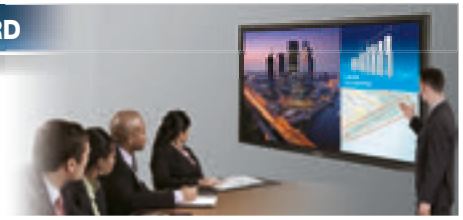
PLASMA **Interactive**

PJLink™ SLOT 2.0 NANODRIFT 100,000 Hours

- High-Speed Drawing/Simultaneous Multiple Drawing
- Excellent Visibility and Colour Reproduction Unique to the Plasma Display
- Easy, Wireless Presentations from a PC or Tablet

PB1 Series 103" 65" **PB2** Series 50"

PLASMA **Large Format/STANDARD**



PJLink™ NANODRIFT 100,000 Hours

- Large Screens and Outstanding Image Quality
- The Superior Moving Picture Resolution
- Tough Display Panel with Impact-Resistant Hard Glass Panel

PF12 Series 85"

PJLink™ SLOT 2.0 NANODRIFT 100,000 Hours

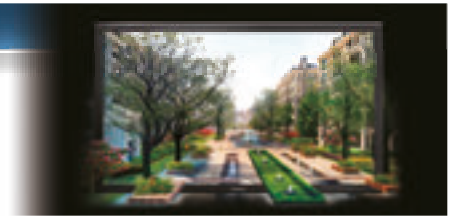
- High Luminous Efficiency for Crisp, High-Contrast Images
- Function Slot (SLOT2.0) Expands Applications (PF50 Series)
- Durable Front Glass and a Service Life of Approx. 100,000 Hours*

*Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.

PF50 Series 65" 60" 50" 42" **PH30** Series 50" (HD) 42" (HD)

*PH30 Series are HD image (1,366 × 768 pixel) quality.

PLASMA **FULL HD 3D**

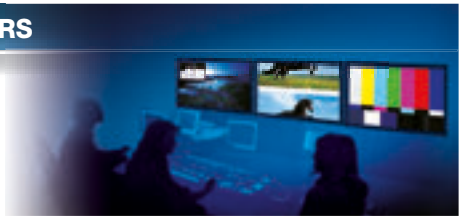


PJLink™ SLOT 2.0 NANODRIFT 100,000 Hours

- Clear 3D Images from Ultra-high Speed Drive Technology
- High Picture Quality with Professional-Grade Engine
- Faithful Colours and Textures from a Wide Colour Gamut

VX200 Series 103" 85" **VX300** Series 65"

BROADCAST PLASMA **MONITORS**



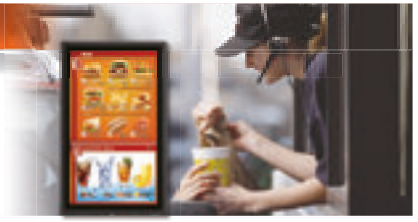
PJLink™ SLOT 2.0 NANODRIFT 100,000 Hours

- A Professional-grade Engine for High Quality 2D and 3D
- Built-in Colour Range Conversion and Editing Functions
- FULL HD 3D Ready

BT300 Series 50" 42"

Professional **LCD Displays**

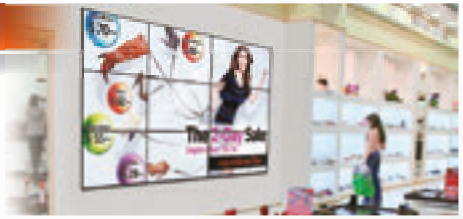
LCD **Outdoor**



- A Full 1,000-cd/m² of Brightness Provides Easy Reading Even in Sunlight
- An Air-Cooled System for Use in Direct Sunlight Plus High Dust and Water Resistance
- The DIGITAL LINK Function Transmits Images, Sounds and Control Signals Up to 100 Metres Over a Single LAN Cable

LFX6 Series 47”

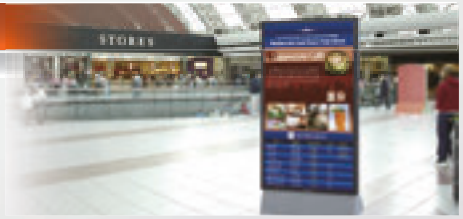
LED LCD **Video Wall**

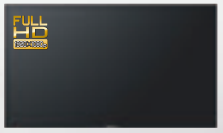


- Super Narrow Bezel for Near Seamless Multi-Screen Video Walls
- Ideal for Installation in Bright Places (800-cd/m²)
- Tough, Reliable Design

LFV50 Series 55”

LED LCD **Large Format**



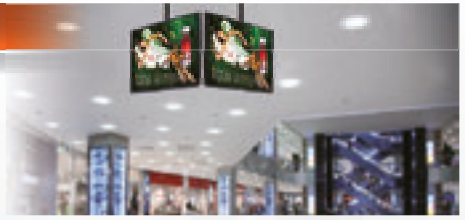


- Large-Screen High Brightness (700-cd/m²)
- 24/7 Operation
- Slim, Lightweight Design

LF50 Series 80” 70”

LCD **STANDARD**

*LF30 Series only.



- High Brightness Full-HD Panel - Optimal for Signage Applications
- Wide Range of Input Terminals
- Stylish and Slim Energy-Saving Design

LF5 Series 47” 42” **LF30** Series 47” 42”

- Featuring an LED Backlight and Full-HD LCD Panel
- A Stylish Design with Large Screen and Narrow 9 mm Bezel
- Standard-equipped Input/Output Terminals for Signage Use

LFE6 Series 50” 42”

	Model no.	TH-103PB1E *	TH-65PB1EK	TH-50PB2E
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	103-inch (2,603 mm)/16:9	65-inch (1,645 mm)/16:9	50-inch (1,268 mm)/16:9
	Effective Display Area (W x H)	2,269 x 1,276 mm	1,434 x 806 mm	1,105 x 622 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Contrast Ratio*1	40,000:1	5,000,000:1	5,000,000 :1
	Gradation	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)
	Panel Life*2	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours
	Touch Technology	Plasma Light Detection System	Plasma Light Detection System	Plasma Light Detection System
	IR Reduction Filter	Yes	Yes	Yes
TERMINAL	VIDEO In	BNC x 1		BNC x 1
	Audio In (L/R)	RCA x 1 set (Shared with Component/RGB In)		RCA x 1 set (Shared with Component/RGB In)
	Component/RGB In	BNC x 3		BNC x 3
	Audio In (L/R)	RCA x 1 set (Shared with Video In)		RCA x 1 set (Shared with Video In)
	HDMI In	HDMI Type A Connector x 1		HDMI Type A Connector x 1
	DVI-D In	DVI-D 24-pin x 1		DVI-D 24-pin x 1
	Audio In (L/R)	M3 jack x 1 (Shared with PC In)		M3 jack x 1 (Shared with PC In)
	PC In	Mini D-Sub 15-pin x1 Plug & Play (VESA DDC 2B)		Mini D-Sub 15-pin x1 Plug & Play (VESA DDC 2B)
	Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)		M3 jack x 1 (Shared with DVI-D In)
	Audio Out (L/R)	RCA Pin Jack x 2	—	—
	Wireless I/F	Wireless Module (ET-WM200E) Terminal x 1		Wireless Module (ET-WM200E) Terminal x 1
	Electronic Pen Adaptor	—		Electronic Pen Adaptor x 1*3
	External Memory/Charge	—		USB Memory*3/Electronic Pen Charging x 1
	Charge	—		Electronic Pen Charging x 1
	Function Slot	SLOT2.0 x 1 (Vacant)		SLOT2.0 x 1 (Vacant)
	External Speaker	—		6 Ω, 16 W [8 W + 8 W] (10 % THD)
	LAN Control	RJ45 10 BASE-T/100 BASE-TX, Compatible with PJLink™		RJ45 10 BASE-T/100 BASE-TX, Compatible with PJLink™
	Serial	D-Sub 9-pin x 1 (RS-232C Compatible)	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible
GENERAL	Power Requirements	200-240 V AC, 50/60 Hz	220-240 V AC, 50/60 Hz	220-240 V AC, 50/60 Hz
	Power Consumptions	1,250 W	510 W	375 W
	On Mode Average Power Consumption*4	Approx. 730 W	Approx. 310 W	Approx. 230 W
	Dimensions (W x H x D)	2,412 x 1,419 x 123*5 mm	1,554 x 925 x 99 mm	1,210 x 724 x 89 mm
	Carton Size	2,694 x 1,792 x 750 mm	1,700 x 1,032 x 400 mm	1,385 x 836 x 284 mm
	Weight	Approx. 189.0 kg	Approx. 58.0 kg	Approx. 34.0 kg
	Gross Weight	Approx. 328.0 kg	Approx. 71.0 kg	Approx. 43.0 kg
	Sound	20 W [10 W + 10 W] (10 % THD)		20 W [10 W + 10 W] (10 % THD)
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)		Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)
	Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)		Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)
FEATURES	Easy Whiteboard Function	—	—	Yes
	Dual Picture	—	—	Yes (Picture-in-Picture/Picture-in Whiteboard)
	Remote Pointer Function	Yes*6	—	Yes
	Wireless Connections	Yes*7	Yes*7	Yes*7
	Network Function	—	—	—
	Weekly Command Timer	Yes	Yes	Yes
	Picture Profiles	Yes (8 memories)	Yes (8 memories)	Yes (8 memories)
	Input Search	—	—	—
	External Scaler Mode	—	—	—
	Auto Set Up	Yes	Yes	Yes
	Brightness Sensor	Yes	Yes	Yes
	Digital Zoom	Yes	Yes (x 1 - x 4)	Yes
	Power on Screen Delay	—	—	—
	PC/DVI-D Power Management	Yes	Yes	Yes
	Power Save/Stand-by Save Mode	Yes	Yes	Yes
	Input/Button Lock	Yes	Yes	Yes
	Colour Gamut	—	—	—
	Studio Mode (W/B, Gain, Under Scan)	Yes	Yes	Yes
	Blue-Only Mode	—	—	—
	R/G/B Cut-off	—	—	—
	Waveform Monitor	—	—	—
	Marker Setting/HV Delay	—	—	—

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic "picture mode using a white signal in a 4 % window.
*2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration. *3: Only effective when using Easy Whiteboard function. *4: Based on IEC 62087 Ed.2 measurement method.
*5: 134 mm when including the protruding portion of slot. *6: The Remote Pointer Kit (TY-TPEN1RM) or Electronic Pen (TY-TPEN2) and Electronic Pen Adaptor (TY-TAD20), sold separately, are required. *7: Panasonic Wireless Module (ET-WM200E), sold separately, is required.
★ The Electronic Pen Kit and Remote Pointer Kit are optional.

Excellent Writing Ease

A new electronic pen system has been developed that takes advantage of plasma characteristics. The pen's position is directly detected and displayed from the light emitted from each of the Full-HD resolution (1920 x 1080) pixels. This results in fast, smooth, precise writing and drawing.

★A separate personal computer is required.

Simultaneous Writing by Up to 4 People

Because up to 4 pens can be individually recognized, people can write with pens of different colours and thicknesses simultaneously. Only the pen is detected, so there are no errors caused by contact with clothing or hands.

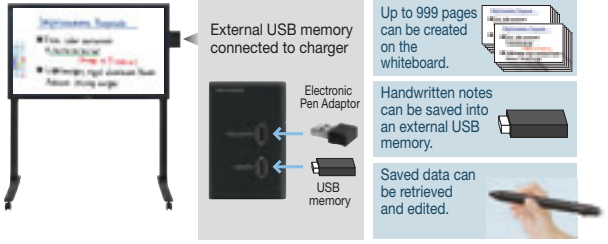
*Dedicated software is required.

No need for a PC! Easy Start-up, Integrated whiteboard Functions (PB2 Series)

The display is embedded with "Easy Whiteboard" software. This lets you immediately use the display as a whiteboard*1, without requiring a PC. By storing handwritten text and graphics into external USB memory, you can retrieve the data and edit it at a later time*2. You can also draw onto data input and displayed from connected peripheral devices*3, such as a PC or player.

*1 Can be saved as PNG or JPEG (editing is enabled in PNG only)
*2 Only data in the PNG format can be retrieved.
*3 Slot input is not supported. Text and graphics that are written onto data displayed from external input cannot be saved.

Used as a whiteboard


External USB memory connected to charger
Electronic Pen Adaptor
USB memory
Up to 999 pages can be created on the whiteboard.
Handwritten notes can be saved into an external USB memory.
Saved data can be retrieved and edited.

Immediate Use — No Calibration or Driver Needed

No calibration is required and the drawing position is always precise because plasma illumination is detected in pixel units. Special Whiteboard Software can be started directly from external memory on which it has been saved. This allows meetings and lessons to start immediately using any desired PC.

* Supported by Windows® XP/Windows Vista®/Windows® 7, 8 However, some functions are restricted when using Windows XP/Vista.

Easy Wireless Presentations from a PC or Tablet

PowerPoint®, Word, Excel, PDF and other data and images can be easily transmitted from your PC, iPad, iPhone, or iPod touch. There's also no need to switch cables when presenters change, and no need to worry about where in the room you are seated. Presentations go smoothly and easily.

Visit our website for details:
http://panasonic.net/prodisplays/products/pbseries/index.html

* The optional ET-WM200E Wireless Module is required for wireless connection.
* Application software for wireless transmission or other dedicated application software is required.

Writing with the Marker function is possible when using an iOS device.

Software

Whiteboard Software

The interactive display is even more convenient to use.

For Windows

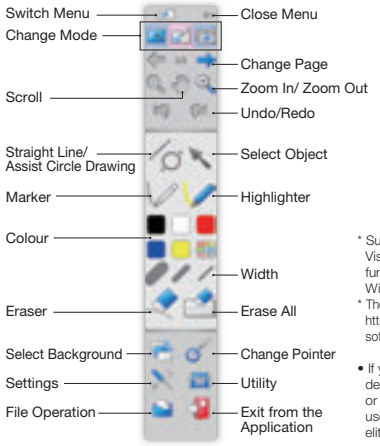
3 Operating Modes

Smoother lessons are possible by switching between operating modes.

Desktop Control Mode
(Drawing is not possible.)
Use an Electronic Pen to control files and applications on the desktop.

Whiteboard Mode
Use as a whiteboard (with 6 pattern backgrounds).

PowerPoint Link Mode
You can write onto PowerPoint slides, and move slides around.



* Supported by Windows® XP/Windows Vista®/Windows® 7, 8 However, some functions are restricted when using Windows XP/Vista.
* The latest software can be downloaded here: http://panasonic.net/prodisplays/download/software/index.html

• If you prefer application software that is designed especially for educational use, or if you have a Mac computer, please use elite Panaboard software and the elite Panaboard book.

Ideal for Various Situations

For Presentations

Messages are relayed more clearly by writing directly into data

Points can be made easier to understand by writing them directly into data displayed on the large screen.

For Remote Meetings

Communication goes more smoothly by writing things down

Data shared with another party in a remote location can be seen by everyone on the large screen. Using a Remote Pointer also clearly shows the other party the area that you are discussing.

As a Whiteboard

Information can be easily shared by preserving written content

Information written onto the board can be quickly and easily saved for use as minutes of the meeting. Also, if the meeting is interrupted, the previous data can be recalled to continue the discussion from where it left off.

For Online Seminars

Understanding can be deepened by adding the main points

By explaining your message while writing directly into data or educational materials, the remote party gets a clearer view of the points you want to relay.

	Model no.	TH-85PF12E	TH-65PF50E	TH-60PF50E	TH-50PF50E	TH-42PF50E
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	85-inch (2,167 mm)/16:9	65-inch (1,645 mm)/16:9	60-inch (1,526 mm)/16:9	50-inch (1,268 mm)/16:9	42-inch (1,066 mm)/16:9
	Effective Display Area (W x H)	1,889 x 1062 mm	1,434 x 806 mm	1,330 x 748 mm	1,105 x 622 mm	929 x 522 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Contrast Ratio*1	40,000:1	5,000,000:1	5,000,000:1	5,000,000:1	5,000,000:1
	Gradation	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)
	Panel Life*2	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours
	FULL HD 3D*3	—	FULL HD 3D Ready	FULL HD 3D Ready	FULL HD 3D Ready	FULL HD 3D Ready
TERMINAL	VIDEO In	—	BNC x 1	BNC x 1		
	Audio In (L/R)	—	RCA x 1 set (Shared with Component In)	RCA x 1 set (Shared with Component In)		
	Component/RGB In	BNC x 3	BNC x 3	BNC x 3		
	Audio In (L/R)	M3 jack x 1	RCA x 1 set (Shared with Video In)	RCA x 1 set (Shared with Video In)		
	HDMI In	—	HDMI Type A Connector x 1	HDMI Type A Connector x 1		
	Dual Link HD-SDI In*4	M3 jack x 1	—	—		
	DVI-D In	DVI-D 24-pin x 1	DVI-D 24-pin x 1	DVI-D 24-pin x 1		
	Audio In (L/R)	M3 jack x 1	M3 jack x 1 (Shared with PC In)	M3 jack x 1 (Shared with PC In)		
	PC In	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)		
	Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)	M3 jack x 1 (Shared with DVI-D In)	M3 jack x 1 (Shared with DVI-D In)		
	Audio Output (L/R)	RCA x 1 set (Line out)	—	—		
	Wireless I/F	—	Wireless Module (ET-WM200E) Terminal x 1	Wireless Module (ET-WM200E) Terminal x 1		
	Function Slot	Yes	SLOT2.0 x 1 (Vacant)	SLOT2.0 x 1 (Vacant)		
	LAN Control	RJ45 10 BASE-T/100 BASE-TX, Compatible with PJLink™		RJ45 10 BASE-T/100 BASE-TX, Compatible with PJLink™		
	Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible		D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible		
	3D Shutter Out	—	M3 jack x 1 (for 3D IR Transmitter)	M3 jack x 1 (for 3D IR Transmitter)		
	DV 8V Out for 3D IR Transmitter	—	Centre Plus for EIAJ 4 mm Plug	Centre Plus for EIAJ 4 mm Plug		
GENERAL	Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
	Power Consumptions	1,100 W	510 W	480 W	445 W	365 W
	On Mode Average Power Consumption*4	Approx. 890 W	Approx. 310 W	Approx. 280 W	Approx. 220 W	Approx. 160 W
	Dimensions (W x H x D)	2,015 x 1,195 x 99 mm	1,554 x 925 x 99 mm	1,434 × 852 × 99 mm	1,210 x 724 x 89 mm	1,020 x 610 x 89 mm
	Carton Size	2,254 ×1,521 × 577 mm	1,700 x 1,032 x 400 mm	1,607 x 1,102 x 332 mm	1,385 x 836 x 284 mm	1,138 x 721 x 284 mm
	Weight	Approx. 117.0 kg	Approx. 60.0 kg	Approx. 49.0 kg	Approx. 33.0 kg	Approx. 25.0 kg
	Gross Weight	Approx. 184.0 kg	Approx. 73.0 kg	Approx. 65.0 kg	Approx. 41.0 kg	Approx. 31.0 kg
	External Speaker	—	8 Ω, 20 W [10 W + 10 W] (10 % THD)	6 Ω, 16 W [8 W + 8 W] (10 % THD)	6 Ω, 16 W [8 W + 8 W] (10% THD)	6 Ω, 16 W [8 W + 8 W] (10 % THD)
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)		Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)		
	Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)		Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)		
FEATURES	Wireless Connections	—	Yes*5	Yes*5	Yes*5	Yes*5
	Network Function	Yes	Yes	Yes	Yes	Yes
	Weekly Command Timer	—	Yes	Yes	Yes	Yes
	Picture Profiles	Yes (8 memories)	Yes (8 memories)	Yes (8 memories)	Yes (8 memories)	Yes (8 memories)
	Input Search	—	Yes	Yes	Yes	Yes
	External Scaler Mode	—	—	—	—	—
	Auto Set Up	Yes	Yes	Yes	Yes	Yes
	Brightness Sensor	—	Yes	Yes	Yes	Yes
	Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)
	Portrait Zoom	Yes	Yes	Yes	Yes	Yes
	Video Wall	Yes	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
	Power on Screen Delay	Yes	Yes	Yes	Yes	Yes
	PC Power Management	Yes	Yes	Yes	Yes	Yes
	Power Save/Stand-by Save Mode	Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
	Input/Button Lock	Yes	Yes	Yes	Yes	Yes
	Colour Gamut	—	—	—	—	—
	Studio Mode (W/B, Gain, Under Scan)	Yes	Yes	Yes	Yes	Yes
	Blue-Only Mode	—	—	—	—	—
	R/G/B Cut-off	—	—	—	—	—
	Waveform Monitor	—	—	—	—	—
	Marker Setting	—	—	—	—	—
	HV Delay	—	—	—	—	—

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic "picture mode using a white signal in a 4 % window.
*2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.
*3: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images.
*4: Based on IEC 62087 Ed.2. measurement method. *5: Panasonic Wireless Module (ET-WM200E), sold separately, is required.

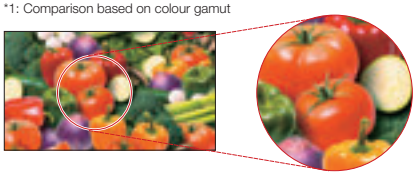
	Model no.	TH-50PH30ER	TH-42PH30ER
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	50-inch (1,268 mm)/16:9	42-inch (1,057 mm)/16:9
	Effective Display Area (W x H)	1,105 x 622 mm	921 x 518 mm
	Number of Pixels (H x V)	1,024 x 768 pixels	1,024 x 768 pixels
	Contrast Ratio*1	2,000,000 : 1	2,000,000 : 1
	Gradation	5,120 steps (equivalent)	5,120 steps (equivalent)
	Panel Life*2	Approx. 100,000 hours	Approx. 100,000 hours
	FULL HD 3D	—	—
TERMINAL	VIDEO In	BNC x 1	
	Audio In (L/R)	RCA x 1 set	
	Component/RGB In	BNC x 3	
	Audio In (L/R)	RCA x 1 set	
	HDMI In	HDMI Type A Connector x 1	
	DVI-D In	DVI-D 24pin x 1	
	Audio In (L/R)	M3 jack x 1	
	PC In	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	
	Audio In (L/R)	M3 jack x 1	
	Wireless I/F	—	
	Function Slot	—	
	LAN Control	—	
	Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	
	3D Shutter Out	—	
	DV 8V Out for 3D IR Transmitter	—	
GENERAL	Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
	Power Consumptions	230 W	175 W
	On Mode Average Power Consumption*3	195 W	150 W
	Dimensions (W x H x D)	1,210 x 724 x 89 mm	1,020 x 610 x 89 mm
	Carton Size	1,385 x 836 x 284 mm	1,138 x 721 x 284 mm
	Weight	Approx. 31.0 kg	Approx. 24.0 kg
	Gross Weight	Approx. 39.0 kg	Approx. 30.0 kg
	External Speaker	6 Ω, 16 W [8 W + 8 W] (10 % THD)	6 Ω, 16 W [8 W + 8 W] (10 % THD)
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)	
	Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)	
FEATURES	Wireless Connections	—	—
	Network Function	—	—
	Weekly Command Timer	—	—
	Picture Profiles	—	—
	Input Search	—	—
	External Scaler Mode	—	—
	Auto Set Up	Yes	Yes
	Brightness Sensor	—	—
	Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)
	Portrait Zoom	—	—
	Video Wall	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
	Power on Screen Delay	Yes	Yes
	PC/DVI-D Power Management	—	—
	Power Save/Stand-by Save Mode	Yes/—	Yes/—
	Input/Button Lock	Yes	Yes
	Colour Gamut	—	—
	Studio Mode (W/B, Gain, Under Scan)	Yes	Yes
	Blue-Only Mode	—	—
	R/G/B Cut-off	—	—
	Waveform Monitor	—	—
	Marker Setting	—	—
	HV Delay	—	—

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic "picture mode using a white signal in a 4 % window.
*2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.
*3: Based on IEC 62087 Ed.2. measurement method.

Approx. 110%*1 of the Colour Gamut of the HDTV Standard

High-definition broadcasts are based on the HDTV standard, rather than the conventional NTSC/PAL standard. Panasonic plasma displays reproduce a wide colour gamut exceeding the entire colour range specified in the HDTV standard (ITU-R, BT.709). This results in a natural and faithful colour reproduction on a large screen. Digital Colour Reality technology also assures images with immaculate details.

*1: Comparison based on colour gamut



Wide Viewing Angle

Crisp images from anywhere sharing the same image quality.

Tough Body with Impact-Resistant Front Glass Panel

The front of the plasma display is covered by a hard glass panel that provides strong resistance to impact and breakage, thereby providing extra assurance against damage when used in busy public spaces. It virtually eliminates any need for additional protective covering.

Versatile Video Inputs with Multiple Digital, Analogue Connections

The PF/PH50 Series is equipped with full range of video input terminals, so you can input both analogue (Component Video, Video, PC) and digital (DVI-D, HDMI) video signals to the display. These standard-equipped terminals handle most of the commonly used video signals.

Superb Moving Picture Resolution (PF50 Series)

Steady, blur-free, fast-moving images such as sports scenes and action films.

1,080 lines **1,200 pps**

Long Life of up to 100,000 Hours*1

The Panasonic plasma display panel offers a long life of approximately 100,000 hours*1, under normal operating conditions — providing gorgeous HD images for many years.

*1: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.

PJLink™*1 — Compatible Network Function for Remote Control (PF50 Series)

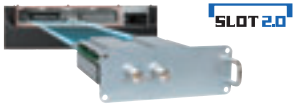
This network function lets you operate displays by remote control and monitor their status through a LAN connection. Since it supports the "PJLink™*1 Class 1" industry standard, existing infrastructure can be used for effective plasma display operation. You can also control the display from a web browser, making it even easier to use. The network function also uses the same protocol as Panasonic projectors, so other video devices can be combined to upgrade the system.

*1: Unified standards for a telecommunications protocol for operating and managing multiple projectors.

- When using the network function, be sure to set "Control I/F Select" in "Network Setup" to "LAN."

A Function Slot Expands the Display's Applications (PF50 Series)

The "SLOT2.0" function slot lets you add display functions to match your application. By simply mounting an optional function board (sold separately), you can add TV tuner functions and connectivity with a content distribution system.



	Manufacturer	Panasonic			
	Series	VX200 Series			VX300 Series
Product Fiche	Model no.	TH-103VX200W	TH-85VX200W		TH-65VX300ER
Product Fiche	Energy Efficiency Class	D	E		D
Product Fiche	Visible Screen Size (Diagonal)	260 cm/103 inches	217 cm/85 inches		165 cm/65 inches
Product Fiche	On Mode Average Power Consumption	942 W	739 W		390 W
Product Fiche	Annual Energy Consumption*1	1,375 kWh/year	1,079 kWh/year		569 kWh/year
Product Fiche	Standby Power Consumption	0.5 W	0.5 W		0.5 W
Product Fiche	Off Mode Power Consumption	0.3 W	0.3 W		0.3 W
Product Fiche	Display Resolution	1,920 (W) x 1,080 (H)	1,920 (W) x 1,080 (H)		1,920 (W) x 1,080 (H)
DISPLAY	Aspect Ratio	16:9	16:9		16:9
DISPLAY	Effective Display Area (W x H)	2,269 x 1,276 mm	1,889 x 1,062 mm		1,434 x 806 mm
DISPLAY	Pixel Pitch (H x V)	1.182 x 1.182 mm	0.984 x 0.984 mm		0.747 x 0.747 mm
DISPLAY	Native Contrast*2	5,000,000:1	5,000,000:1		5,000,000:1
DISPLAY	Gradation	8,192 steps (equivalent)	8,192 steps (equivalent)		12,288 steps (equivalent)
DISPLAY	Panel Life*3	Approx. 100,000 hours	Approx. 100,000 hours		Approx. 100,000 hours
DISPLAY	FULL HD 3D	Yes	Yes		Yes*4
TERMINAL	VIDEO In	—			—
TERMINAL	Audio In (L/R)	—			—
TERMINAL	Component/RGB In	RCA x 3			BNC x 3
TERMINAL	Audio In (L/R)	RCA x 1 set			RCA x 1 set
TERMINAL	HDMI In	HDMI Type A Connector x 4			HDMI Type A Connector x 2
TERMINAL	DVI-D In	—			—
TERMINAL	Audio In (L/R)	—			—
TERMINAL	PC In	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)			Mini D-Sub 15-pin x 1
TERMINAL	Audio In (L/R)	M3 jack x 1			M3 jack x 1 (Shared with DVI-D In)
TERMINAL	Audio Output (L/R)	RCA x 1 set			—
TERMINAL	Wireless I/F	—			—
TERMINAL	Function Slot	SLOT2.0 x 1 (Vacant)			SLOT2.0 x 1 (Vacant)
TERMINAL	LAN Control	RJ45 10BASE-T/100BASE-TX, Compatible with PJLink™			RJ45 10 BASE-T/100 BASE-TX, Compatible with PJLink™
TERMINAL	Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible			D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible
TERMINAL	3D Shutter Out	M3 jack x 1 (for Optional 3D IR Transmitter)			M3 jack x 1 (for 3D IR Transmitter)
TERMINAL	DV 8V Out for 3D IR Transmitter	—			Centre Plus for EIAJ 4 mm Plug
GENERAL	Power Requirements	200-240 V AC, 50 Hz/60 Hz	200-240 V AC, 50 Hz/60 Hz		220-240 V AC, 50 Hz/60 Hz
GENERAL	Power Consumptions	1,450 W	1,200 W		450 W
GENERAL	Dimensions (W x H x D)	2,412 x 1,419 x 129*5 mm	2,015 x 1,195 x 99 mm		1,554 x 924 x 94 mm
GENERAL	Carton Size	2,694 x 1,792 x 750 mm	2,194 ×1,480 × 549 mm		1,700 x 1,130 x 400 mm
GENERAL	Weight	Approx. 199.0 kg	Approx. 117.0 kg		Approx. 60.0 kg
GENERAL	Gross Weight	Approx. 337.0 kg	Approx. 146.0 kg		Approx. 76.0 kg
GENERAL	External Speaker	—	—		8Ω, 20 W [10 W + 10 W] (10% THD)
GENERAL	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)			Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)
GENERAL	Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)			Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)
FEATURES	Wireless Connections	—	—		—
FEATURES	Network Function	Yes	Yes		Yes
FEATURES	Weekly Command Timer	—	—		—
FEATURES	Picture Profiles	Yes (16 memories)	Yes (16 memories)		Yes (16 memories)
FEATURES	Input Search	—	—		—
FEATURES	External Scaler Mode	Yes	Yes		Yes
FEATURES	Auto Set Up	Yes	Yes		Yes
FEATURES	Brightness Sensor	—	—		—
FEATURES	Digital Zoom	—	—		—
FEATURES	Portrait Zoom	—	—		—
FEATURES	Video Wall	—	—		—
FEATURES	Power on Screen Delay	—	—		—
FEATURES	PC Power Management	Yes	Yes		Yes
FEATURES	Power Save/Stand-by Save Mode	Yes/—	Yes/—		Yes/Yes
FEATURES	Input/Button Lock	Yes	Yes		Yes
FEATURES	Colour Gamut	Yes	Yes		Yes
FEATURES	Studio Mode (W/B, Gain, Under Scan)	Yes	Yes		Yes
FEATURES	Blue-Only Mode	Yes	Yes		Yes
FEATURES	R/G/B Cut-off	—	—		Yes
FEATURES	Waveform Monitor	—	—		Yes
FEATURES	Marker Setting	—	—		Yes
FEATURES	HV Delay	—	—		Yes

*1: Energy consumption XYZ kWh per year, based on the power consumption of the television operating 4 hours per day for 365 days. The actual energy consumption will depend on how the television is used (Product fiche:Based on (EU) No. 1062/2010 ANNEX III).
*2: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic "picture mode using a white signal in a 4 % window.
*3: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration. *4: An optional 3D Eyewear is required.
*5: Exclusive of portion (141 mm when including the protruding portion of the terminal)

8,192 Equivalent Steps of Gradation

The colour expression that is achieved by 8,192 equivalent steps of gradation, and the smoothness with which it renders intermediate colours, combine to create tonal nuances.

Smooth, natural gradation.

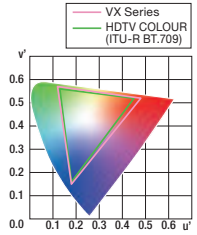
A Wide Colour Gamut Faithfully Reproduces the Colours

With the wide colour gamut of this panel, the natural colours and textures of materials can be faithfully reproduced, meeting versatile market needs.

Select from Four Setting Types with COLOUR GAMUT

The wide colour gamut approaches the digital cinema range to enable extremely fine colour rendering that was simply not possible with conventional panels.

- DIGITAL CINEMA COLOUR
- HDTV COLOUR
- EBU
- SMPTE-C
- NATIVE
- CUSTOM

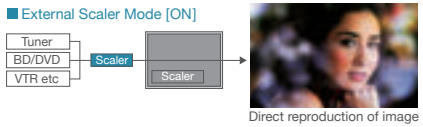


* DIGITAL CINEMA COLOUR/HDTV COLOUR (ITU-R BT.709) /NATIVE/CUSTOM for VX200 Series.

Process Images with External Scaler Mode

With this advanced function, you can process images exactly the way you want them. It lets you convert the image with an external scaler instead of using the display's built-in scaler.

■ External Scaler Mode [ON]



Direct reproduction of image adjusted with the scaler.

■ External Scaler Mode [OFF]

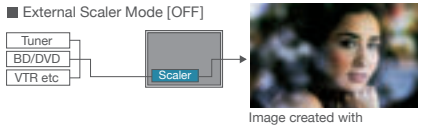


Image created with the VX Series.

Picture Profile

The picture adjustment values set using the Picture menu and advanced settings can be stored in the display's memory as profiles. Up to eight combinations can be stored, and the preferred profile can be selected to match the video source being used.

	Model no.	TH-50BT300ER	TH-42BT300ER
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	50-inch (1,268 mm)/16:9	42-inch (1,057 mm)/16:9
	Effective Display Area (W x H)	1,105 x 622 mm	921 x 518 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Contrast Ratio*1	5,000,000:1	5,000,000:1
	Gradation	12,288 steps (equivalent)	12,288 steps (equivalent)
	Panel Life*2	Approx. 100,000 hours	Approx. 100,000 hours
	FULL HD 3D*3	FULL HD 3D Ready	FULL HD 3D Ready
TERMINAL	VIDEO In	BNC x 1	
	Audio In (L/R)	RCA x 1 set	
	Component/RGB In	BNC x 3	
	Audio In (L/R)	RCA x 1 set	
	HDMI In	HDMI Type A Connector x 1	
	DVI-D In	DVI-D 24-pin x 1	
	Audio In (L/R)	M3 jack x 1	
	PC In	Mini D-Sub 15-pin x 1	
	Audio In (L/R)	M3 jack x 1 (Common terminal with DVI-D In)	
	Wireless I/F	—	
	Function Slot	SLOT2.0 x 1 (Vacant)	
	LAN Control	RJ45 10BASE-T/100BASE-TX, Compatible with PJLink™	
	Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	
	3D Shutter Out	M3 jack x 1 (for 3D IR Transmitter)	
	DV 8V Out for 3D IR Transmitter	Centre Plus for EIAJ 4 mm Plug	
GENERAL	Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
	Power Consumptions	390 W	305 W
	On Mode Average Power Consumption*4	Approx. 200 W	Approx. 165 W
	Dimensions (W x H x D)	1,210 × 724 × 89 mm	1,020 × 610 × 89 mm
	Carton Size	1,385 × 836 × 284 mm	1,138 × 721 × 284 mm
	Weight	Approx. 34.0 kg	Approx. 26.0 kg
	Gross Weight	Approx. 41.0 kg	Approx. 31.0 kg
	External Speaker	6 Ω, 16 W [8 W + 8 W] (10 % THD)	6 Ω, 16 W [8 W + 8 W] (10 % THD)
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)	
	Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)	
FEATURES	Wireless Connections	—	—
	Network Function	Yes	Yes
	Weekly Command Timer	—	—
	Picture Profiles	Yes (8 memories)	Yes (8 memories)
	Input Search	—	—
	External Scaler Mode	Yes	Yes
	Auto Set Up	—	—
	Brightness Sensor	—	—
	Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)
	Portrait Zoom	—	—
	Video Wall	—	—
	Power on Screen Delay	—	—
	PC/DVI-D Power Management	—	—
	Power Save/Stand-by Save Mode	Yes	Yes
	Input/Button Lock	—	—
	Colour Gamut	Yes	Yes
	Studio Mode (W/B, Gain, Under Scan)	Yes	Yes
	Blue-Only Mode	Yes	Yes
	R/G/B Cut-off	Yes	Yes
	Waveform Monitor	Yes	Yes
	Marker Setting	Yes	Yes
	HV Delay	Yes	Yes

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in *Dynamic *picture mode using a white signal in a 4 % window.
*2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode.
*3: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images.
*4: Based on IEC 62087 Ed.2. measurement method.

Bi-level Drive Technology* Smoothly Displays Dark Areas

Smoother tonal expression is gained in dark areas thanks to a total of 12,288 steps, twice the number of our conventional models (compared with the PF20 Series).

* Valid for Cinema mode and Monitor mode.

Conventional

BT300 Series

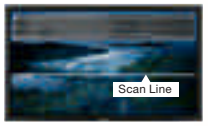
Faithfully Reproduces the Colours and Textures

Faithful colour reproduction, expression And image quality for demanding image production workflows.

Waveform Monitor

This function displays the waveform for the brightness and colour levels of input signals from other video devices, for easy monitoring.

Single Line Scan Mode



Displays the waveform for a signal that is input at any desired line (shown by the white line).

Full Scan Mode

Displays the input signal waveforms for the entire screen.

Various Marker Functions

Aspect Marker
Confirm the angle of view with the 4:3, 13:9, 14:9, VISTA marker, and CNSCO marker.

Safe Area Marker (16:9/4:3)
Select the user area marker from 80% to 100% in 1% increments. During 16:9 mode, you can also layer and display the 4:3 area marker.

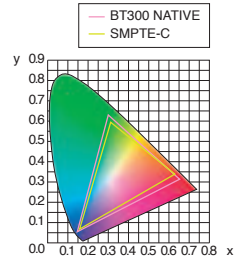
Centre Marker (16:9/4:3)
The centre marker can be displayed together with another marker. It can also be displayed together with the area marker.

Crosshatch Grid
Display a grid within the screen for easy horizontal and vertical alignment.

* Vertical lines are displayed as perceived on 3% of the screen width.

The Wide Colour Gamut Panel Reproduces Colours That Professional Applications Demand

Six modes are provided, including the colour gamut modes for broadcasting and post-production use including (SMPTE-C/ EBU/BT.709) and Digital Cinema Colour and Native. Custom mode allows you to set the hue for each RGB colour while viewing a simplified chroma diagram.



Superb Moving Picture Resolution

Steady, blur-free, fast-moving images such as sports scenes and action films.

1,080 lines | 1,200 pps

HV Delay Display

This function delays the synchronisation signals for horizontal and vertical positioning to display the image blanking intervals.

H Delay

V Delay

HV Delay

	Model no.	TH-47LFX6W
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	47-inch (1,192 mm)/16:9
	Panel Type	IPS/CCFL
	Effective Display Area (W x H)	1,039 x 584 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels
	Brightness	1,000cd/m² (Typ)
	Contrast Ratio	1,200:1
	Response Time	—
	Viewing Angle	178°/178°
	Touch Screen Panel	—
TERMINAL	VIDEO In	—
	Audio In (L/R)	—
	HDMI In	HDMI Type A Connector x 1
	Component/RGB In	—
	Audio In (L/R)	—
	DVI-D In	DVI-D 24-pin x 1
	Audio In (L/R)	M3 Jack x 1 (Shared with PC In)
	PC In	Mini D-Sub 15-pin x1
	Audio In (L/R)	M3 Jack x 1 (Shared with DVI-D In)
	Audio Out (L/R)	RCA x 1 set (Line Out)
	DIGITAL LINK	RJ45 x 1 (Shared with DIGITAL LINK)
	Serial	D-Sub 9-pin x 1, RS-232C Compatible
	LAN	RJ45 x 1 (Shared with DIGITAL LINK)
	Function Slot	—
GENERAL	Power Requirements	220-240 V AC, 50 Hz/60 Hz
	Power Consumptions	370 W
	On Mode Average Power Consumption*1	—
	Dimensions (W x H x D)	1,162 x 706 x 216 mm
	Carton Size	1,308 x 851 x 323 mm
	Weight	Approx. 49.5 kg
	Gross Weight	Approx. 58.0 kg
	Built-in Speakers	—
	Operating Environment	Temperature: -20 °C*2 to 40 °C, Humidity: 20 % to 80 % (Non Condensation)
	Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 80 % (Non Condensation)
FEATURES	IP Rating	IP44
	Touch Screen	—
	Failover Input	Yes
	Input Search	—
	Auto Set Up	—
	Brightness Sensor	Yes
	Digital Zoom	Yes
	Video Wall	Yes (N x M, up to 5 x 5)
	Power on Screen Delay	Yes
	Display ID Control	Yes
	PC/DVI-D Power Management	On/Off/Sensor
	Power Save Mode	—
	Input/Button Lock	Yes
	Remote-control User Level Setting	Yes
	Screen Saver	Yes
	Studio W/B	—
	Outdoor Mode	Yes
	Orientation	Landscape/Portrait

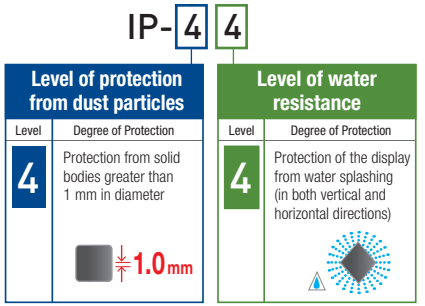
*1: Based on IEC 62087 Ed.2 measurement method.
*2: When using outdoor mode.

High Brightness (1,000 cd/m²) for Easy-to-See Images Even in Sunlight

Images are clear even in brightly lit places. Full 1,000 cd/m² brightness maintains excellent visibility under direct sunlight. This makes the LFX ideal for installation in drive-through lanes. And because the brightness isn't affected by external light, information such as menu items and prices remain clear and easy to read.

Dustproof and Water Resistance Performance — Ideal for Outdoor Installation

IP44 level dustproof and water resistance performance enables use even in outdoor and other severe environments.

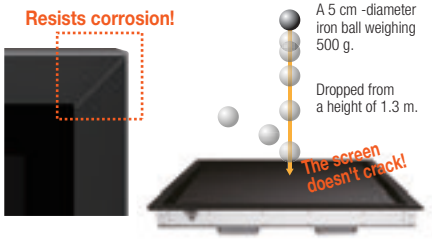


Forced Air-Cooling System for Blackout Prevention

Outside air is brought into the cabinet to produce an airflow between the front glass and the LCD panel. This suppresses internal temperature rises and prevents blackouts when the display is installed outdoors. It also serves as a countermeasure against condensation.

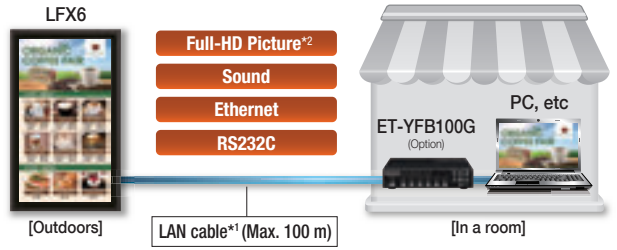
Aluminum Cabinet and Tempered Glass Adoption

The aluminum cabinet strongly resists corrosion. In addition, tempered glass ensures rugged strength against impacts.



DIGITAL LINK for Transmission of Video, Audio and Control Signals for up to 100 m with a Single LAN Cable

Only a single LAN cable*1 is required to transmit uncompressed HD video, audio and control signals for a distance of up to 100 m. This enables indoor installation of the PC and other devices connected to the display at an outdoor location in order to protect the PC and devices from rain and dust. Since only one cable needs to be connected between the PC and panel, cable routing work is quick and easy. Because a control signal can also be sent simultaneously, it is easy to upgrade the system by combining it with the optional ET-YFB100G Digital Interface Box.



*1: Use an STP cable of CAT5e or higher.
*2: WUXGA (1,920 x 1,200 pixels) compatible.

	Model no.	TH-55LFV50W
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	55-inch (1,387.8 mm)/16:9
	Panel Type	IPS/Direct LED
	Effective Display Area (W x H)	1,209.6 x 680.4 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels
	Brightness	800 cd/m² (Typ)
	Contrast Ratio	1,400:1
	Respons Time	10 ms (G to G)
	Viewing Angle	178°/178°
	Touch Screen Panel	—
TERMINAL	VIDEO In	BNC x 1
	Audio In (L/R)	RCA x 1 set (Shared with Component In)
	HDMI In	HDMI Type A Connector x 1
	Component In	BNC x 3
	Audio In (L/R)	RCA x 1 set (Shared with Video In)
	DVI-D In	DVI-D 24-pin x 1
	Audio In (L/R)	M3 jack x 1 (Shared with PC In)
	DVI-I Out	DVI-I 29-pin x 1
	PC In	Mini D-Sub 15-pin x 1 (Female)
	Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)
	Audio Out (L/R)	RCA x 1 set
	Serial In/Out	D-Sub 9-pin x 1/D-Sub 9-pin x 1, RS-232C Compatible
	Function Slot	—
	IR Transmitter In/Out	IR x 1/x 1
	LAN	RJ45 x 1 (Web Browser Control Only)
GENERAL	Power Requirements	224-240 V AC, 50 Hz/60 Hz
	Power Consumptions	Approx. 320 W
	On Mode Average Power Consumption*1	—
	Dimensions (W x H x D)	1,215.5 x 686.3 x 121.2 mm
	Carton Size	1,551 x 979 x 450 mm
	Bezel Width	3.4 mm (Left/Top), 1.9 mm (Right/Bottom)
	Weight	Approx. 36.0 kg
	Gross Weight	Approx. 48.0 kg
	External Speaker	8 Ω, 20 W [10 W + 10 W]
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 10 % to 90 % (No condensation)
	Storage Environment*2	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (No condensation)
FEATURES	IP Rating	—
	Touch Screen	—
	Failover Input	—
	24/7 Operation	—
	Ceiling-Suspension	—
	Seam Hides Video Off Mode	Yes
	Daisy Chain (DVI/Remote/Serial)	Yes
	Input Search	—
	Brightness Sensor	—
	Digital Zoom	Yes
	Video Wall	Yes (N x M, up to 5 x 5)
	Power on Screen Delay	Yes
	Display ID Control	Yes
	PC/DVI-D Power Management	Yes
	Power Save Mode	—
	Input/Button Lock	—
	Remote-control Lock	Yes
	Screen Saver	Yes
	Studio W/B	—
	Winter Mode	—
	Orientation	Landscape/Portrait

*1: Based on IEC 62087 Ed.2 measurement method.
*2: If the temperature is 40 °C to 60 °C, please keep in humidity 20 % to 40 %.

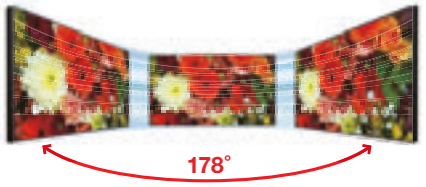
Super Narrow Bezel with 5.3-mm Thinness (Bezel to Bezel)

A super narrow bezel design reduces the width of screen-joining borders to only 5.3 mm in video wall. The borders are hardly visible even in very large-screen configurations, so images are more dynamic and natural.

Conventional Type LFV50

High 800 cd/m² Brightness and a Wide Viewing Angle

LED LCD panels with a full 800 cd/m² of brightness ensure high visibility even in large public spaces. The IPS system also provides a wide viewing angle.



High visibility means clear and accurate display of information even in bright, open areas.

Low Power Consumption

Highly efficient LED LCD panel provides high-level energy savings. In addition to producing crisp, clear images, they also offer highly uniform brightness when used as a video wall.

Daisy-Chain Connection

Signals can be distributed to as many as 10 displays from a single DVI input. When ID numbers have been assigned to the displays in advance, any designated display can be operated by a single remote control.

Auto-Operation Setting for the Cooling Fan

Heat rises easily to the upper displays during multi-screen use. An internal temperature display lets you check the temperature, and the cooling fan can be set* to automatically operate at high temperatures.

*When set to Auto.

Giving Identical Colours to Each Display in a Multi-Screen System

Colours are adjusted prior to factory shipment, to minimise colour differences between displays for multi-screen use. This makes it possible to create single images without any visible differences from display to display.

*There are cases, however, when the visual adjustments are needed once the video wall installed.

Turnkey Solution for Multi-window Presentations

The ET-MWP100G Panasonic Multi-Window Processor (option) makes it possible to quickly and efficiently combine multiple LCD displays and projectors into a video wall or a multi vision system. The ET-MWP100G can be used to build a wide range of creative, impressive images that were never before possible, including video walls, digital signage, TV studio displays, and live stage screens.

Major Features

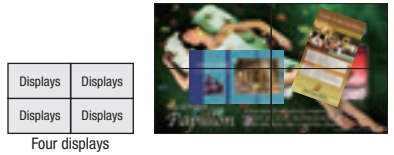
- Single or multiple output layouts
- Single or multiple canvases
- Real-time 360° output rotation
- Simultaneous use of multiple layouts and canvases
- One or more windows (P in Ps) on each canvas with 360° rotation of each window
- Low power consumption of max 160 W* with 16 interface boards mounted

* When using a single power supply.

Multi-Window Processor
ET-MWP100G (Option)

Output Pattern Example

■ **Multiple picture in picture**



Four displays

■ **Free layout for different display device**

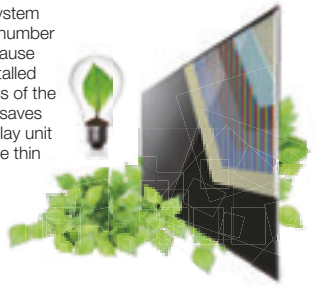
Projector and displays

	Model no.	TH-80LF50ER	TH-70LF50ER
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	80-inch (2,032 mm)/16:9	70-inch (1,765 mm)/16:9
	Panel Type	LED	LED
	Effective Display Area (W x H)	1,771 x 996 mm	1,538 x 865 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Brightness	700 cd/m²	700 cd/m²
	Contrast Ratio	5,000:1	5,000:1
	Respons Time	9 ms (G to G)	9 ms (G to G)
	Viewing Angle	178°/178°	178°/178°
	Touch Screen Panel	—	—
TERMINAL	VIDEO In	BNC x 1	
	Audio In (L/R)	RCA x 1 set	
	HDMI In	HDMI Type A Connector x 1	
	Component/RGB In	BNC x 3	
	Audio In (L/R)	RCA x 1 set	
	DVI-D In	DVI-D 24-pin x 1	
	Audio In (L/R)	M3 jack x 1 (Shared with PC In)	
	DVI-D Out	DVI-D 24-pin x 1	
	PC In	Mini D-Sub 15-pin x 1 (Female)	
	Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)	
	Line Out (L/R)	RCA x 1 set, Output level: Variable (- ∞ - 0 dB)	
	Serial In/Out	D-Sub 9-pin x 1/D-Sub 9-pin x 1, RS-232C Compatible	
	Function Slot	SLOT2.0 x 1	
	IR Transmitter In/Out	—	
	LAN	RJ45 10BASE-T/100BASE-TX, Compatible with PJLink™	
GENERAL	Power Requirements	224-240 V AC, 50 Hz/60 Hz	224-240 V AC, 50 Hz/60 Hz
	Power Consumptions	Approx. 380 W	Approx. 260 W
	On Mode Average Power Consumption*1	—	—
	Dimensions (W x H x D)	1,848 x 1,073 x 89 mm	1,604 x 931 x 89 mm
	Carton Size	1,993 x 1,188 x 349 mm	1,750 x 1,047 x 349 mm
	Bezel Width	36 mm	30 mm
	Weight	Approx. 60.0 kg	Approx. 47.0 kg
	Gross Weight	Approx. 71.0 kg	Approx. 56.0 kg
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)	
	Storage Environment*2	Temperature: -20 °C to 60 °C, Humidity: 20 % to 80 % (Non condensation)	
FEATURES	IP Rating	—	—
	Touch Screen Panel	—	—
	Failover Input	—	—
	24/7 Operation	Yes	Yes
	Ceiling-Suspension	Yes	Yes
	Daisy Chain	Yes	Yes
	Input Search	Yes	Yes
	Auto Set Up	—	—
	Brightness Sensor	Yes	Yes
	Digital Zoom	Yes (x 1- x 4)	Yes (x 1- x 4)
	Video Wall	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
	Power on Screen Delay	Yes	Yes
	Display ID Control	Yes	Yes
	PC/DVI-D Power Management	Yes	Yes
	Power Save Mode	—	—
	Input/Button Lock	Yes	Yes
	Remote-control User Level Setting	Yes	Yes
	Screen Saver	Yes	Yes
	Studio W/B	—	—
	Winter Mode	—	—
	Orientation	Landscape/Portrait	Landscape/Portrait

*1: Based on IEC 62087 Ed.2 measurement method.
*2: If the temperature is 40 °C to 60 °C, please keep in humidity 20 % to 40 %.

Edge Light System Used for Backlighting

The edge light system requires a small number of LED units because the lights are installed only on the edges of the LCD panel. This saves energy. The display unit can also be made thin and light.



Large-Screen, High-Brightness

High 700-cd/m² brightness and 5,000:1 contrast ensure excellent, eye-catching visibility even in large public spaces. This greatly increases the promotional value for signage use.

Fan-less Design

The fan-less design prevents malfunctions otherwise caused by dust particles brought in by the fan. This enables safe installation in crowded areas.

24/7 Operation

The tough design makes the display panel suitable for use as signage that operates all day and night in places such as restaurants, shopping malls and transportation facilities.

Protective Glass (Optional)

Since the protective glass fits inside the bezel, the external dimensions remain virtually the same. The glass protects the LCD panel surface so the display can be installed in busy public areas.

Stylish Slim and Lightweight

A simple design with a slim bezel of approximately 30 mm (70") and thickness of only 89 mm facilitates signage applications by enabling installation just about anywhere.

A Slim Design that Fits almost any Installation Location

The display can be installed in a permanent hanging position using eyebolts. Wall-mount brackets and hanging fixtures in compliance with VESA specifications can also be used for flexible installation.

	Model no.	TH-47LF5E	TH-42LF5E	TH-47LF30ER	TH-42LF30ER
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	47-inch (1,192 mm)/16:9	42-inch (1,067 mm)/16:9	47-inch (1,192 mm)/16:9	42-inch (1,067 mm)/16:9
	Panel Type	IPS/CCFL	IPS/CCFL	IPS/CCFL	IPS/CCFL
	Effective Display Area (W x H)	1,039 x 584 mm	930 x 523 mm	1,039 x 584 mm	930 x 523 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Brightness	500 cd/m²	500 cd/m²	700 cd/m²	700 cd/m²
	Contrast Ratio	1,200:1	1,200:1	1,200:1	1,200:1
	Response Time	9 ms (G to G)	9 ms (G to G)	9 ms (G to G)	9 ms (G to G)
	Viewing Angle	178°/178°	178°/178°	178°/178°	178°/178°
	Touch Screen Panel	—	—	—	—
TERMINAL	VIDEO In	—		BNC x 1	
	Audio In (L/R)	—		RCA x 1 set	
	HDMI In	HDMI Type A Connector x 1		HDMI Type A Connector x 2	
	Component/RGB In	—		BNC x 3	
	Audio In (L/R)	—		RCA x 1 set	
	DVI-D In	DVI-D 24-pin x 1		DVI-D 24-pin x 1	
	Audio In (L/R)	M3 jack x 1 (Shared with PC In)		M3 jack x 1 (Shared with PC In)	
	DVI-D Out	—		DVI-D 24-pin x 1	
	PC In	Mini D-Sub 15-pin x 1		Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	
	Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)		M3 jack x 1 (Shared with DVI-D In)	
	Audio Out (L/R)	RCA x 1 set (Line out)		—	
	Serial	D-Sub 9-pin x 1 (Serial In), RS-232C Compatible		D-Sub 9-pin x 1 (Serial In/Out), RS-232C Compatible	
	Function Slot	—		SLOT2.0 x 1	
GENERAL	Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
	Power Consumptions	290 W	250 W	340 W	290 W
	On Mode Average Power Consumption*1	Approx. 245 W	Approx. 205 W	Approx. 255 W	Approx. 220 W
	Dimensions (W x H x D)	1,079 x 624 x 117 mm	968 x 561 x 116 mm	1,079 x 624 x 117 mm	968 x 561 x 116 mm
	Carton Size	1,212 x 770 x 254 mm	1,101 x 707 x 224 mm	1,212 x 770 x 254 mm	1,101 x 707 x 224 mm
	Weight	Approx. 24.5 kg	Approx. 20.0 kg	Approx. 25.0 kg	Approx. 21.0 kg
	Gross Weight	Approx. 29.0 kg	Approx. 24.0 kg	Approx. 32.0 kg	Approx. 27.0 kg
	Built-in Speakers	—	—	8 Ω, 10 W [5 W + 5 W] (10 %THD)	8 Ω, 10 W [5 W + 5 W] (10 %THD)
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)		Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)	
	Storage Environment*2	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)		Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)	
FEATURES	IP Rating	—	—	—	—
	Touch Screen	—	—	—	—
	Failover Input	Yes	Yes	Yes	Yes
	24/7 Operation	Yes	Yes	—	—
	Input Search	Yes	Yes	—	—
	Auto Set Up	—	—	—	—
	Brightness Sensor	Yes	Yes	Yes	Yes
	Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)
	Video Wall	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
	Power on Screen Delay	Yes	Yes	Yes	Yes
	Display ID Control	Yes	Yes	Yes	Yes
	PC/DVI-D Power Management	Yes	Yes	Yes	Yes
	Power Save Mode	Yes	Yes	—	—
	Input/Button Lock	Yes	Yes	Yes	Yes
	Remote-control User Level Setting	Yes	Yes	Yes	Yes
	Screen Saver	Yes	Yes	Yes	Yes
	Studio W/B	Yes	Yes	Yes	Yes
	Winter Mode	—	—	—	—
	Orientation	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait

*1: Based on IEC 62087 Ed.2 measurement method.
*2: If the temperature is 40 °C to 60 °C, please keep in humidity 20 % to 40 %.

Versatile Functions for Public Information Displays

In addition to the high resolution of Full-HD and the wide viewing angle of the IPS panel, the LF Series features high brightness and 9-ms response. This makes it possible to display crisp, clear images even in bright places, for signage with excellent information transmission performance.

Stylish Design

The bezel on LF Series (42") is only 18.3 mm wide (18.6 mm on 47")

Capable of Continuous, 24-Hour Operation*

(LF5 Series)

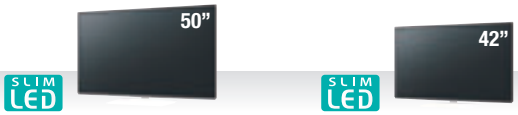
This enables continuous, stable, 24-hour operation. It also makes this display ideal for signage use in public spaces such as airports and train stations.

* Continuous 24-hour operation may cause image retention or other problems in the LCD screen, depending on the display content.

Input Search Function

(LF5 Series)

If the input signal is not detected for some reason, another input with a signal is automatically selected for reliable operation. The display will not remain in a no-signal condition, making it well suited to signage use that produces advertising revenue.



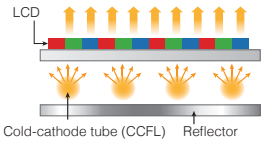
	Model no.	TH-50LFE6E	TH-42LFE6E
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	50-inch (1,257 mm)/16:9	42-inch (1,067 mm)/16:9
	Panel Type	MVA/ E-LED	MVA/ E-LED
	Effective Display Area (W x H)	1,095 x 616 mm	930 x 523 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Brightness	350 cd/m²	350 cd/m²
	Contrast Ratio	5,000:1	5,000:1
	Response Time	9.5 ms (G to G)	9.5 ms (G to G)
	Viewing Angle	176°/176°	176°/176°
	Touch Screen Panel	—	—
TERMINAL	VIDEO In	—	—
	Audio In (L/R)	—	—
	HDMI In	HDMI Type A Connector x 1	HDMI Type A Connector x 1
	Component/RGB In	—	—
	Audio In (L/R)	—	—
	DVI-D In	DVI-D 24-pin x 1	DVI-D 24-pin x 1
	Audio In (L/R)	M3 Jack x 1 (Shared with PC In)	M3 Jack x 1 (Shared with PC In)
	DVI-D Out	—	—
	PC In	Mini D-Sub 15-pin x1 (Female)	Mini D-Sub 15-pin x1 (Female)
	Audio In (L/R)	M3 Jack x 1 (Shared with DVI-D In)	M3 Jack x 1 (Shared with DVI-D In)
	Audio Out	M3 Jack x 1 (Line Out)	M3 Jack x 1 (Line Out)
	Serial	D-Sub 9-pin x 1, RS-232C Compatible	D-Sub 9-pin x 1, RS-232C Compatible
	LAN	RJ45 x 1 10 BASE-T/100 BASE-TX	RJ45 x 1 10 BASE-T/100 BASE-TX
GENERAL	Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
	Power Consumptions	90 W	65 W
	On Mode Average Power Consumption*1	Approx. 0.5 W	Approx. 0.5 W
	Dimensions (W x H x D)	1,121 x 655 x 49 mm (T.B.D.)	957 x 564 x 49 mm (T.B.D.)
	Carton Size	1,461 x 753 x 127 mm	1,236 x 662 x 127 mm
	Bezel Width	9.0 mm (Left/Right/Top), 10 mm (Bottom)	9.0 mm (Left/Right/Top), 10 mm (Bottom)
	Weight	Approx. 18.0 kg	Approx. 13.5 kg
	Gross Weight	Approx. 22.0 kg	Approx. 17.0 kg
	Built-in Speakers	10 W [5 W + 5 W]	10 W [5 W + 5 W]
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)	
	Storage Environment*2	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)	
FEATURES	IP Rating	—	—
	Touch Screen	—	—
	Failover Input	—	—
	24/7 Operation	—	—
	Ceiling-Suspension	—	—
	Seam Hides Video Off Mode	Yes	Yes
	Daisy Chain	—	—
	Input Search	Yes	Yes
	Brightness Sensor	Yes	Yes
	Digital Zoom	Yes	Yes
	Video Wall	Yes	Yes
	Power on Screen Delay	Yes	Yes
	Display ID Control	Yes	Yes
	PC/DVI-D Power Management	Yes	Yes
	Power Save Mode	Yes	Yes
	Input/Button Lock	Yes	Yes
	Remote-control Lock	Yes	Yes
	Screen Saver	Yes	Yes
	Studio W/B	Yes	Yes
	Winter Mode	—	—
	Orientation	Landscape	Landscape

*1: Based on IEC 62087 Ed.2 measurement method.
*2: If the temperature is 40 °C to 60 °C, please keep in humidity 20 % to 40 %.

LED backlight provide light weight, a thin profile, and low power consumption

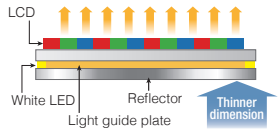
Detailed Full-HD picture quality and the beautiful images in large spaces. The use of an LED backlight allows signage to be used for long periods with excellent visibility and low power consumption, to help reduce running costs.

Conventional system (CCFL system)



The CCFL system requires the installation of multiple tubes that illuminate in the same way as fluorescent lamps behind the LCD panel. Thus, the display unit becomes thick.

LED edge light system

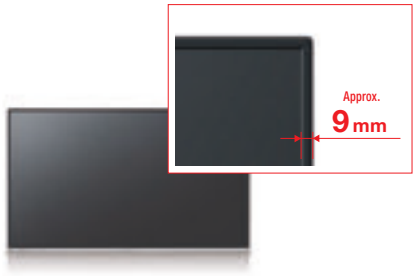


The edge light system requires a small number of LED units because the lights are installed only on the edges of the LCD panel. This saves energy. The display unit can also be made thin and light.

Text and intricate patterns are crisply displayed.

A stylish design with large screen and narrow 9 mm bezel

The stylish design combines a 9 mm bezel and a depth of only 49 mm. There is less visual bulk, so the display seems to blend into its surroundings. This makes the image stand out even more, for greater, eye-catching visibility.



Standard-equipped input/output terminals for signage use

The input/output terminals (HDMI, DVI-D, PC-IN) and control terminals (RS232C, LAN) needed for signage use are provided as standard equipment.

Built-in Speaker

The speaker is built into the rear of the display. There is no need for external speakers when using content that has a soundtrack.

(The specifications has a case to change without notice)

		PB1		PB2	PF12	PF50				PH30		VX200		VX300	BT300		LFX6	LFV50	LF50		LF30		LF5		LFE6	
		TH-103PB1E	TH-65PB1EK	TH-50PB2E	TH-85PF12E	TH-65PF50E	TH-60PF50E	TH-50PF50E	TH-42PF50E	TH-50PH30ER		TH-42PH30ER	TH-103VX200W	TH-85VX200W	TH-65VX300ER	TH-50BT300ER	TH-42BT300ER	TH-47LFX6W	TH-55LFV50W	TH-80LF50ER	TH-70LF50ER	TH-47LF30ER	TH-42LF30ER	TH-47LF5E	TH-42LF5E	TH-50LFE6E	TH-42LFE6E
Size (inch)		103	65	50	85	65	60	50	42	50		42	103	85	65	50	42	47	55	80	70	47	42	47	42	50	42
Pedestal	**TY-ST103PF9**	Yes	—	—	—	—	—	—	—	—		—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-ST85P12	—	—	—	Yes	—	—	—	—	—		—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-ST65VX300	—	—	—	—	—	—	—	—	—		—	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—
	TY-ST65P20	—	Yes	—	—	Yes	—	—	—	—		—	—	—	—	—	—	—	—	Yes	—	—	—	—	—	—	—
	TY-ST58P20	—	—	—	—	—	Yes	—	—	—		—	—	—	—	—	—	—	—	—	Yes	—	—	—	—	—	—
	TY-ST42P50	—	—	Yes	—	—	—	Yes	Yes	—		—	—	—	—	—	—	—	—	—	—	—	—	Yes	Yes	—	—
	TY-ST42PE6	—	—	—	—	—	—	Yes	Yes	Yes		Yes	—	—	—	Yes	Yes	—	—	—	—	Yes	Yes	—	—	Yes	Yes
Wall-hanging Bracket	**TY-WK103PV9**	Yes	—	—	—	—	—	—	—	—		—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-WK85PV12	—	—	—	Yes	—	—	—	—	—		—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-WK70PV50	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	Yes	Yes	—	—	—	—	—	—
	TY-WK42PV20	—	—	Yes	—	—	—	Yes	Yes	Yes		Yes	—	—	—	Yes	Yes	—	—	—	—	—	—	—	—	—	—
Wall-hanging Bracket (Angled)	**TY-WK65PR20**[*1]	—	Yes	—	—	Yes	Yes	—	—	—		—	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—
	TY-WK42PR20	—	—	Yes	—	—	—	Yes	Yes	Yes		Yes	—	—	—	Yes	Yes	—	—	—	—	—	—	—	—	—	—
Ceiling-hanging Bracket	**TY-CE103PS10**	Yes	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-CE85PS12	—	—	—	Yes	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-CE42PS20	—	—	Yes	—	—	—	Yes	Yes	Yes		Yes	—	—	—	Yes	Yes	—	—	—	—	—	—	—	—	—	—
Floor Stand	**TY-ST85PF12**	—	—	—	Yes	—	—	—	—	—		—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile Stand	**TY-ST65PF1**[*2]	—	Yes	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-ST58PF20	—	—	Yes	—	—	Yes	Yes	Yes	Yes		Yes	—	—	—	Yes	Yes	—	—	—	—	—	—	—	—	—	—
	TY-ST50PB2	—	—	Yes	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cover Frame Kit	**TY-CF55VW50**	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—
Protective Glass	**TY-PG80LF50**	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	Yes	—	—	—	—	—	—	—
	TY-PG70LF50	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	Yes	—	—	—	—	—	—
Electronic Pen Kit	**TY-TPEN1PBW**	Yes	Yes	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remote Pointer Kit	**TY-TPEN1RMW**	Yes	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electronic Pen	**TY-TPEN2**	Yes	—	Yes	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electronic Pen Adaptor	**TY-TAD20**	Yes[*3]	—	Yes	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electronic Pen Charger	**TY-TCG20**	—	—	Yes	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Touch Panel for 65"	**TY-TP65P30K**	—	—	—	—	Yes	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Touch Panel for 60"	**TY-TP60P30K**	—	—	—	—	—	Yes	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Touch Panel for 50"	**TY-TP50P30K**	—	—	Yes[*4]	—	—	—	Yes	—	Yes		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Touch Panel for 42"	**TY-TP42P30K**	—	—	—	—	—	—	—	Yes	—		Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Touch pen	**TY-TPEN30**	—	—	—	—	Yes	Yes	Yes	Yes	Yes		Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Speaker for 65"	**TY-SP65P11WK**	—	—	—	—	Yes	—	—	—	—		—	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—
Speaker for 58"	**TY-SP58P10WK**	—	—	—	—	—	Yes	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Speaker for 50"	**TY-SP50P8W-K**	—	—	—	—	—	—	Yes	—	Yes		—	—	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—
Speaker for 42"	**TY-SP42P8W-K**	—	—	—	—	—	—	—	Yes	—		Yes	—	—	—	—	Yes	—	—	—	—	—	—	—	—	—	—
Replacement Air Filter	**TY-AF6STD**	—	—	—	—	—	—	—	—				—	—	—	—	—	Yes	—	—	—	—	—	—	—	—	—
3D IR Transmitter	**TY-3DTRW**	—	—	—	—	—	—	—	—	—		—	Yes	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-3D30TRW	—	Yes	—	—	Yes	Yes	Yes	Yes	—		—	—	—	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—
3D Eyewear	**TY-EW3D3LE**	—	Yes	—	—	Yes	Yes	Yes	Yes	—		—	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—
	TY-EW3D3ME	—	Yes	—	—	Yes	Yes	Yes	Yes	—		—	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—
	TY-EW3D3SE	—	Yes	—	—	Yes	Yes	Yes	Yes	—		—	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—
Remote Control Kit	**TY-RM50VW**	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—
Wireless Module	**ET-WM200E**	Yes	Yes	Yes	—	Yes	Yes	Yes	Yes	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Easy Wireless Stick	**ET-UW100**	Yes	Yes	Yes	—	Yes	Yes	Yes	Yes	—		—	—	—	—	—	—	—	—	—	—	—	—		—	—	—

*1: Wall hanging Bracket suit for both Angled and Vertical use. Also usable for Portrait mounting in 0 degree.
*2: TY-ST65PF1 is silver colour.
*3: Cannot use it for Electonic Pen Kit (TY-TPEN1PB) and Remote Pointer Kit (TY-TPEN1RM).
*4: Touch panel driver installation of you PC is required. URL to download the touch panel driver: http://panasonic.net/prodisplays/download/software/index.html

(The specifications has a case to change without notice)

		PB1		PB2	PF12	PF50				VX200		VX300	BT300		LFX6	LFV50	LF50		LF30	
		TH-103PB1E	TH-65PB1EK	TH-50PB2E	TH-85PF12E	TH-65PF50E	TH-60PF50E	TH-50PF50E		TH-42PF50E	TH-103VX200W	TH-85VX200W	TH-65VX300ER	TH-50BT300ER	TH-42BT300ER	TH-47LFX6W	TH-55LFV50W	TH-80LF50ER	TH-70LF50ER	TH-47LF30ER	TH-42LF30ER
Size (inch)		103	65	50	85	65	60	50		42	103	85	65	50	42	47	55	80	70	47	42
HD-SDI	**TY-FB9HD**	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	—	—	Yes	Yes	Yes	—	—	—	—	—	—
HD-SDI with Audio	**TY-FB10HD**	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	—	—	Yes	Yes	Yes	Yes
Dual Link HD-SDI	**TY-FB11DHD**	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—
Dual HD-SDI (with 3D Signal)	**TY-FB30DHD3D**	—	—	—	—	—	—	—		—	—	—	Yes	Yes	Yes	—	—	—	—	—	—
Dual HDMI	**TY-FB10HMD**	Yes	Yes	Yes	Yes*	Yes	Yes	Yes		Yes	—	—	Yes	Yes	Yes	—	—	—	—	—	—
BNC Dual Video	**TY-FB9BD**	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—
Ir Through	**TY-FB9RT**	—	—	—	Yes	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—
DVI-D	**TY-FB11DD**	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—
DVI-D (with 3D Signal)	**TY-FB30DD3D**	—	—	—	—	—	—	—		—	—	—	Yes	Yes	Yes	—	—	—	—	—	—
Plug in PC	**PLUGTHA54**	Yes	Yes	Yes	—	Yes	Yes	Yes		Yes	—	—	Yes	—	—	—	—	—	—	Yes	Yes
Digital Interface Box	**ET-YFB100G**	—	—	—	—	—	—	—		—	—	—	—	—	—	Yes	—	—	—	—	—
Multi-Window Processor	**ET-MWP100G**	—	—	—	—	—	—	—		—	—	—	—	—	—	—	Yes	—	—	—	—

• TY-42TM6A, TY-42TM6B, TY-42TM6G, TY-42TM6P, TY-42TM6V, TY-42TM6Y, TY-42TM6Z, TY-FB7SD, TY-FB8HM, TY-FB10WPE are compatible for PF12 Series.

Optional Terminal Boards

HD-SDI Terminal Board
TY-FB9HD

HD-SDI Terminal Board with Audio
TY-FB10HD

Dual Link HD-SDI Terminal Board with Audio
TY-FB11DHD

3D-Compatible Dual HD-SDI Terminal Board
TY-FB30DHD3D

Dual HDMI Terminal Board
TY-FB10HMD

BNC Dual Video Terminal Board
TY-FB9BD

Ir Through Board
TY-FB9RT

DVI-D Terminal Board
TY-FB11DD

3D-Compatible Dual DVI-D Terminal Board
TY-FB30DD3D

Plug in PC
PLUGTHA54

Digital Interface Box
ET-YFB100G

Multi-Window Processor
ET-MWP100G